

BY DA DATE 12/20/01

SHEET 1 OF 6

CHKD. BY \_\_\_\_\_ DATE \_\_\_\_\_

PROGRAM/SECTION Ecology WR-CRO COUNTY Yakima

PROJECT Waco Orchards LLC Drought Authorization

SUBJECT Determination of Drought Water Pumped

**CALCULATION PAD**

1.) Drought authorization occurred on May 29, 2001.

a.) Authorization for 2 existing wells and 1 new well.

- i) Well No. 1 (Vista Ridge Well, 300' west  $\frac{1}{2}$  1500' south from NE  $\frac{1}{4}$  S32, T12N, R20E W.M.
- ii) Well No. 2 (Skyvue Well, 3100' north  $\frac{1}{2}$  100' east from S  $\frac{1}{4}$  corner S33, T12N, R20E W.M.
- iii) Well No. 3 (New Well, proposed 100' south and 100' west from NE  $\frac{1}{4}$  S32, T12N, R20E W.M.

b.) Qty. authorized = 753 gpm and 367.4 A-ft to irrigate 183.7 acres based on 2 acre-feet/acre duty. Water to be used for supplemental irrigation of orchard from 5/1 to 10/31 on the following 5 parcels:

**Parcel A-** That portion of the W  $\frac{1}{2}$  NW  $\frac{1}{4}$  of Section 28, lying south and west of the Roza Irrigation District P5L Lateral; and the SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  of Section 29, T. 12 N., R. 20 E.W.M., Yakima County, known as Tax Parcel Nos. 201239-14001 and 201228-22003, respectively.

**Parcel B-** All that portion of the SE  $\frac{1}{4}$  of Section 29, T. 12 N., R. 20 E.W.M., lying northeasterly of the northeasterly right-of-way line of the Roza Canal, EXCEPT right-of-way for Roza laterals and wasteways. Parcel No. 201229-41001.

**Parcel C-** That part of the W  $\frac{1}{2}$  SW  $\frac{1}{4}$  of Section 28, T. 12 N., R. 20 E.W.M., lying northerly of the Roza Canal and westerly of the following described line; beginning at a point on the North boundary of said subdivision situate N 88°54'30" E, 761.65 feet from the NW corner thereof, then S 1°05'25" E 1051.87 feet, thence S 88°54'30" W 48.21 feet, then S 1°44'00" W 227.88 feet, thence S 1°05'25" E 70.50 feet to point "A", then continuing S 1°05'25" E 1323.51 feet to the S boundary of said subdivision and terminus of said line. Parcel No. 201228-32004.

**Parcel D-** That portion of the SE  $\frac{1}{4}$  NW  $\frac{1}{4}$  of Section 33, T. 12 N., R. 20 E.W.M., lying westerly of the (Sunnyview) County Road; EXCEPT a strip conveyed to Yakima County for road purposes by deed recorded under Auditor's File No. 988377, 1911466 and 1911467, records of Yakima County, Washington.. Parcel No 201233-24002.

**Parcel E-** That portion of the N  $\frac{1}{2}$  SE  $\frac{1}{4}$  of Section 33, T., 12 R. 20 E.W.M., lying west of the Roza Canal, and that portion of the south 417.5 feet of the SW  $\frac{1}{4}$  NE  $\frac{1}{4}$  of said section lying west of the Roza Canal, EXCEPT for road right-of way along west boundary. Parcel Nos. 201233-13001 and 201233-42001.



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SHEET 2 OF 6

CHKD. BY \_\_\_\_\_ DATE \_\_\_\_\_

PROGRAM/SECTION Ecology WR-CRO COUNTY Yakima

PROJECT Waco Orchards LLC Drought Authorization

SUBJECT Determination of Drought Water Pumped

### CALCULATION PAD

2.) Determine volume of water pumped from Skyvue Well

a.) Flowmeter readings (reads in acre-feet):

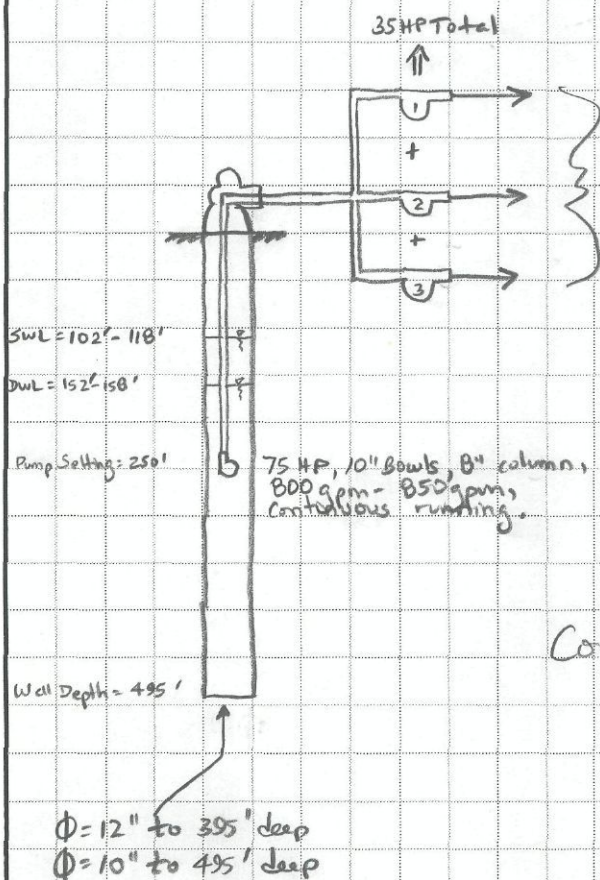
i.) July 5, 2001 → 608.570 acre-feet

ii.) December 14, 2001 → 1004.189 acre-feet

$$\therefore \text{Total Volume Pumped} = 1004.189 - 608.570 = \underline{\underline{395.619 \text{ A-ft}}}$$

2.5) No data submitted for new well, never pumped.

3.) Determine volume of water pumped from Vista Ridge Well



From PPI Meter # 90042784,  
Account # 51266041 - 0105,  
Total Kw-hr used from 3/20/01 to 11/19/01  
= 241,412 Kw-hr

Conversion from Kw-hr pumped to gallons is:

$$V = 318,281 \cdot P_e \cdot M_e \cdot X / H,$$

where  $P_e$  &  $M_e$  are pump & motor efficiencies,  
and  $X$  is Kw-hr,  $H$  is feet.

a.) Need to determine what portion of power consumed was by well pump vs. booster pumps.



BY DH DATE 12/20/01SHEET 3 OF 6

CHKD. BY \_\_\_\_\_ DATE \_\_\_\_\_

PROGRAM/SECTION Ecology WR-CRO COUNTY YakimaPROJECT Waco Orchards LLC Drought AuthorizationSUBJECT Determination of Drought Water Pumped

## CALCULATION PAD

i.) Assume combined pump and motor efficiencies  $(p_e \cdot m_e) = 0.75$ 

ii.) Determine total head requirement "H"

$$H = \text{Pumping Lift} + \text{friction loss} + \text{discharge pressure}$$

$$\begin{aligned} \bullet \text{ Pumping Lift} &= \text{DWL for this system since discharge is to booster pump intakes at ground level} \\ &= \underline{158'} \end{aligned}$$

$$\begin{aligned} \bullet \text{ Friction loss may be estimated from } &\underline{\text{Cameron Hydraulic Data (1995)}} \\ \text{For 8" column @ 850 gpm, steel pipe, friction loss} &\approx 1.2' / 100' \\ \text{For 250' of column, } h_f &= (1.2' / 100') (250') = 3', \text{ Say } \underline{5'} \text{ for minor losses (pg. 3-23. Cameron)} \end{aligned}$$

$$\begin{aligned} \bullet \text{ Discharge pressure is unknown, but is likely low due to booster configuration and system setup. Assume } &20 \text{ psi.} \\ 20 \text{ psi} \cdot 2.31' / \text{psi} &= \underline{46.2'} \end{aligned}$$

$$H = 158' + 5' + 46.2' = 209.2', \text{ Say } \underline{210'}$$

Check Assumptions for HFrom Lindeburg 6<sup>th</sup> Ed. (1997), pg. 4-8.

$$HP = \frac{Q \cdot H}{3956 \cdot e} = \frac{(850 \text{ gpm})(210')}{3956 \cdot (0.75)} = 60.2 \text{ HP, round up to next motor size} = \underline{75 \text{ HP}}$$

iii.) Determine what portion of "X" kw-hr pumped from well.

$$\bullet \text{ From } V = 318,281 \cdot p_e \cdot m_e \cdot X / H \text{ and system configuration,}$$

$$V_{\text{well}} = V_{\text{booster}}, \text{ or } (p_e \cdot m_e)_{\text{well}} \cdot \frac{X_{\text{well}}}{H_{\text{well}}} = (p_e \cdot m_e)_{\text{booster}} \cdot \frac{X_{\text{booster}}}{H_{\text{booster}}}$$

Assuming the relative efficiencies are the same,

$$\frac{X_{\text{well}}}{X_{\text{booster}}} = \frac{H_{\text{well}}}{H_{\text{booster}}}$$



BY DH DATE 12/21/01  
CHKD. BY \_\_\_\_\_ DATE \_\_\_\_\_

SHEET 4 OF 6

PROGRAM/SECTION Ecology WR-CRO COUNTY Yakima

PROJECT Waco Orchards LLC Drought Authorization  
SUBJECT Determination of Drought Water Pumped

CALCULATION PAD

iii (continued).

- From before,  $H_{well} = 210'$
- $H_{booster} = \text{Pumping lift} + h_f + \text{discharge pressure}$

- While topography and discharge pressure can be estimated, friction loss is more difficult due to unknown distribution characteristics.

Use  $HP = \frac{QH}{3956 \cdot e}$   
 $35 = \frac{(850)(H)}{3956 (0.75)} \Rightarrow H = 122'$

Then  $\frac{X_{well}}{X_{booster}} = \frac{210'}{122'} = 1.72$ , or

$X_{total} = X_{well} + X_{booster} = 1.72 X_{booster} + X_{booster} = 2.72 X_{booster}$ , or

$X_{booster} = \frac{X_{total}}{2.72} = 37\% X_{total}$   
 $X_{well} = 63\% X_{total}$

b.) Solving for Volume,  $V$ ,

$V = 318,281 \cdot p_e \cdot m_e \cdot X / H$

$V = 318,281 \cdot (0.75) \cdot (0.63) \cdot (241,412) / 210 = 172,882,919 \text{ gallons}$

Converting to acre-feet ( $325,829 \text{ gallons} = 1 \text{ acre-foot}$ ),

$V = 530.6 \text{ acre-feet}$

4.) Total volume pumped from Skyvue & Vista Ridge Well is:

$V_{total} = V_{skyvue} + V_{vista} = 395.6 + 530.6 = 926.2 \text{ acre-feet}$

5.) From this total volume, we need to subtract out "non-drought" authorizations.



BY DH DATE 12/21/01

SHEET 5 OF 6

CHKD. BY \_\_\_\_\_ DATE \_\_\_\_\_

PROGRAM/SECTION Ecology WR-CRO COUNTY Yakima

PROJECT Waco Orchards LLC Drought Authorization

SUBJECT Determination of Drought Water Pumped

CALCULATION PAD

5. (continued)

a.) Parcels A, B, C, D, & E, authorized by the drought, have no other state-issued rights (according to the mapped P.O.V.'s in 6W15).

b.) Parcels A, B, C, D, & E appear to have a Proza allotment of 3.2 acre-ft/acre in non-drought years. This allocation was reduced to approximately  $\frac{1}{3}$  this year.

i.)  $(3.2)(183.7) = 587.8$  acre-feet

ii.)  $(\frac{1}{3})(587.8) = 195.9$  acre-feet

iii.)  $(\frac{1}{3})(3.2) = 1$  acre-foot / acre irrigation duty

c.) Vista Ridge Well is also an authorized POW for 64-24568C.

i.) 741 A-ft for irrigation of 195 acres supplemental to RID (3.8-a-ft/acre)

ii.) 8 A-ft for group domestic supply

iii.) 25 A-ft for frost control

iv.) Assume irrigation qty. pumped is difference in duties,

$V_i = (3.8 - 1.0)(195) = 546$  acre-feet

$V_{GDS} = 8$  acre-feet

$V_{FC} = 25$  acre-feet

579 acre-feet

d.) Vista Ridge Well is also an authorized POW for 64-29620C.

i.) 7 A-ft for frost protection

e.) Skyvue Well is also an authorized POW for 64-29536C

i.) 34.2 Ac-ft supplemental irrigation of 42.8 acres = 0.8 acre-ft/acre.

Assume all 34.2 used this year due to RID deficit > 0.8 A-ft/acre

ii.) 126 Ac-ft primary irrigation of 28 acres

iii.) 42 Ac-ft primary irrigation of 15 acres



BY DH DATE 12/21/01SHEET 6 OF 6

CHKD. BY \_\_\_\_\_ DATE \_\_\_\_\_

PROGRAM/SECTION Federal WR-CRO COUNTY YakimaPROJECT Waco Orchards LLC Drought AuthorizationSUBJECT Determination of Drought Water Pumped

## CALCULATION PAD

- e.) continued, iv.) 88.2 Ac-ft for 0.7' additional duty for primary irrigation of 126 acres  
v.) 118 Ac-ft for late season irrigation of 281 acres  
vi.) 35 Ac-ft frost protection

$$\Sigma = 443.4 \text{ acre-feet/year}$$

- 6.) Total RID deficit needed for Parcels A, B, C, D & E =

$$587.8 \text{ acre-ft} - 195.9 \text{ acre-ft} = \underline{391.9 \text{ acre-feet}}$$

- 7.) Total Drought authorization for Parcel A, B, C, D & E = 367.4 acre-feet

- 8.) Total Water pumped from drought-authorized wells = 926.2 acre-feet

- 9.) Total State-water rights eligible to be pumped from drought-authorized wells in 2001 =

$$579 \text{ A-ft} + 7 \text{ A-ft} + 443.4 \text{ A-ft} = \underline{1,029.4 \text{ A-ft}}$$

- 10.) Total acreage authorizations

a.) State-issued = 195 acres

b.) Drought-issued = 183.7 acres

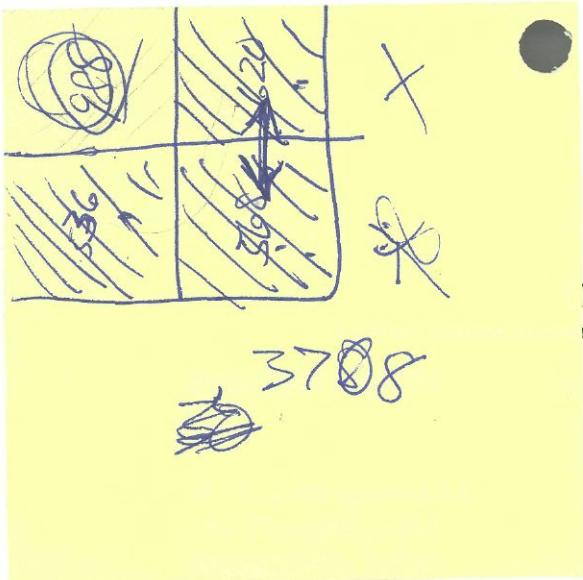
$$= 378.7 \text{ acres}$$

- 11.) Average Water Duty used =  $926.2 \text{ acre-feet} / 378.7 \text{ acres} = 2.44 \text{ acre-ft/acre}$

- 12.) Inasmuch as WACO Orchards' State-issued rights allow duties  $> 2.44$ , and based on the data available, and because the RID deficit on the drought-issued acreage is 2 acre-feet/acre, which is consistent with the drought-authorized duty, I conclude that WACO Orchards used the full drought appropriation of:

$$\underline{\underline{367.4 \text{ A-ft}}}$$





STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY  
e, Suite 200 • Yakima, Washington 98902-3452 • (509) 575-2490

Vista Ridge well Permit# G4-24508C ✓

Typical static water level = 102 to 118 ft.  
Typical dynamic level at 800-850 gpm = 152 to 158 ft.  
well depth = 495'  
Pump setting = 250'  
5-stage pump, 8" casing, 10" Saws

RE: Application No(s). G4-32988

Earlier this year, the Department of Ecology issued an Emergency Drought Authorization under the above-referenced application number for the use of emergency wells in the Yakima River basins to supplement reduced deliveries during this irrigation season. In some cases new wells were approved for this purpose.

One of the provisions of the authorizations was that a flow meter must be installed, water use monitored, and the water use records submitted to the department at the end of the irrigation season. At this time, I am writing to request the metering reports on these wells. If you did not drill a well that was authorized, or did not use water that was authorized, please let us know.

My staff will be conducting end of irrigation season field visits in the near future. Your meter records and information on the completion of new wells is greatly appreciated.

If you have questions, please call Suzanne Blakeney at (509) 454-7294.

Sincerely,

*Phil Crane*

Phil Crane, Unit Supervisor  
Water Resources Program

SB:PC:gg  
011110a

(1.) On skyvue well (Permit # G4-29536C)

Earliest flow meter reading was 7/5/01 - 608.570 ac-ft.

Last " " " was 12/14/01 - 004.189 ac-ft.

for a seasonal use total, 7/5/01 to season end, of 395.619 ac-ft.

(2.) On Vista Ridge well (Permit #'s G4-24508C and G4-29620C) G4-31383A, G4-32156A

utilizing electrical meter conversion in absence of pipeline flow meter.

Total H.P. continuous running = 75 H.P. well turbine motor + 35 H.P. total in three booster pumps  
= 110 H.P. total on PP&L meter # 90042784, PP&L Acct # 51266041-0105

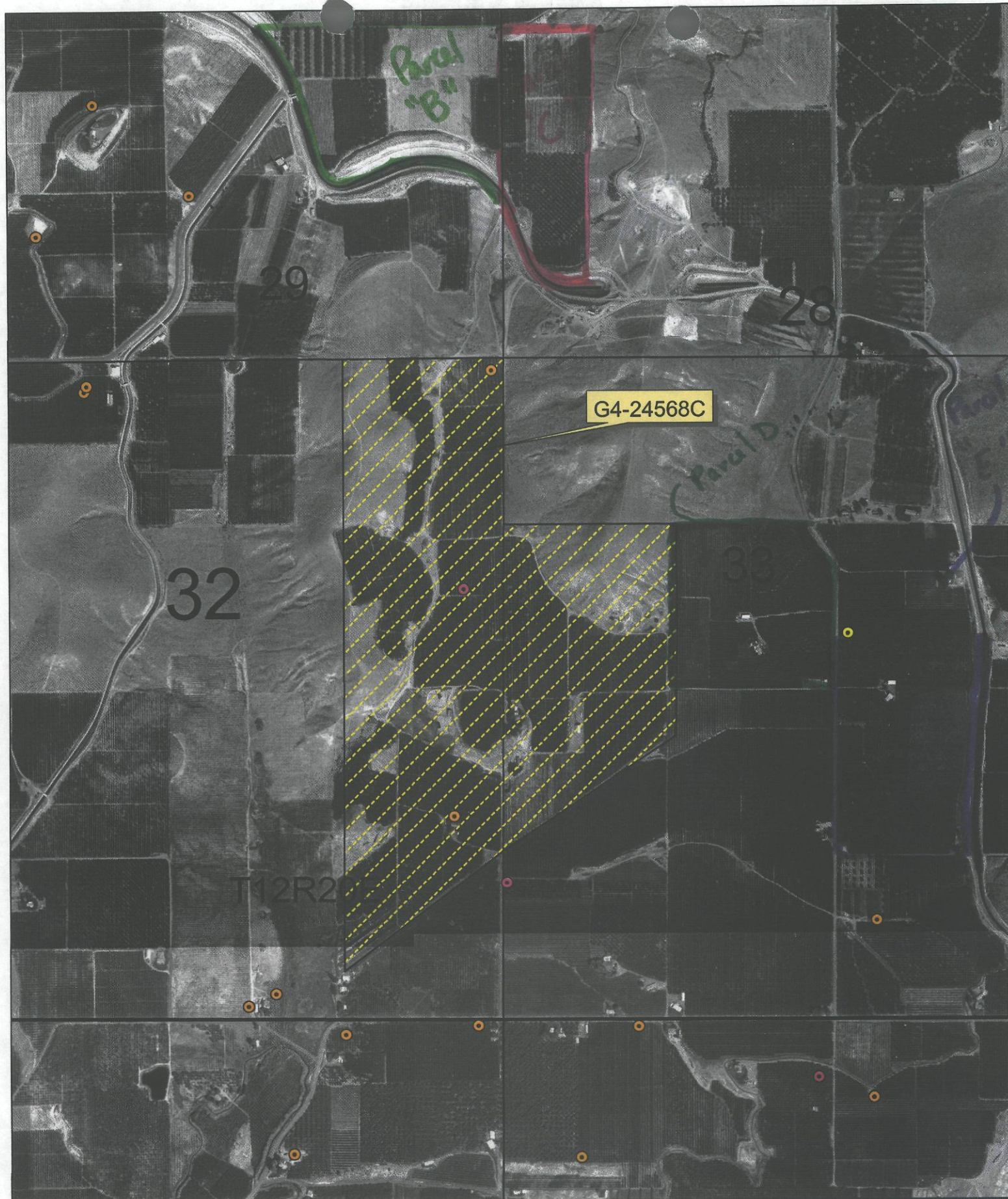
Total KWH used 3/20/01 to 11/19/01 = 241,412 KWH





509/877-4773  
Gary Rider





G4-29536C

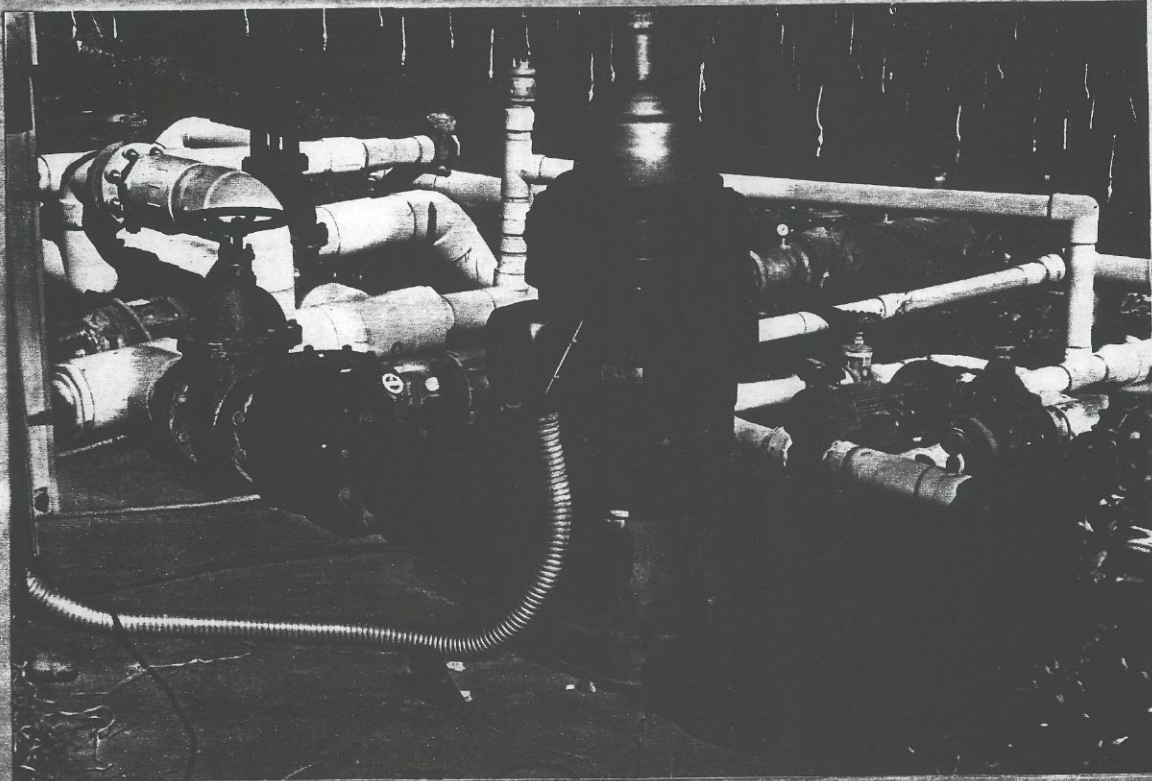
500 0 500 1000 Feet

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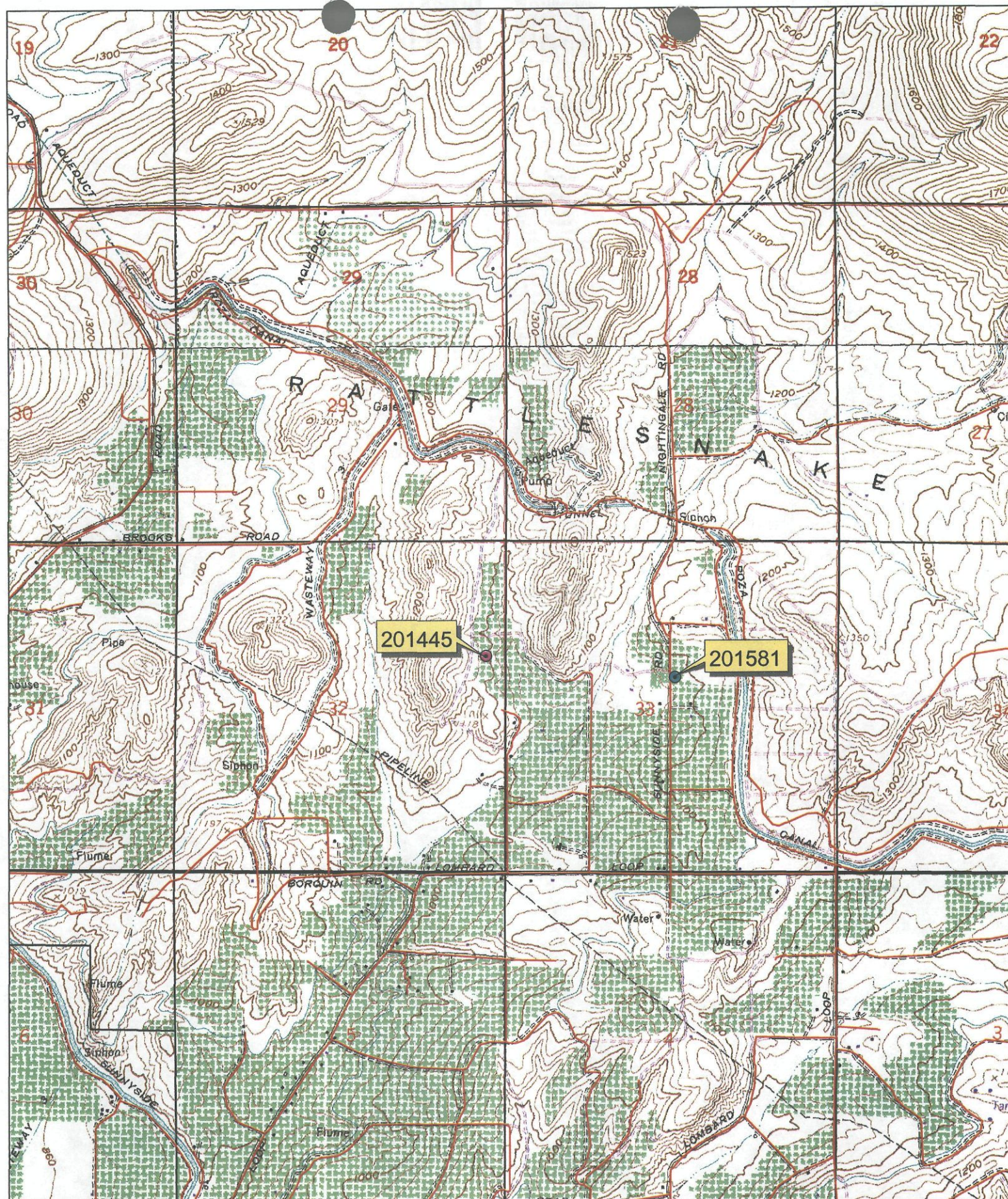
Map printed 12/20/2001





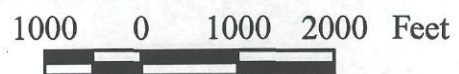
Vista Ridge 10-2-2000





**GARY WRITER**  
*Roza Drought Wells*

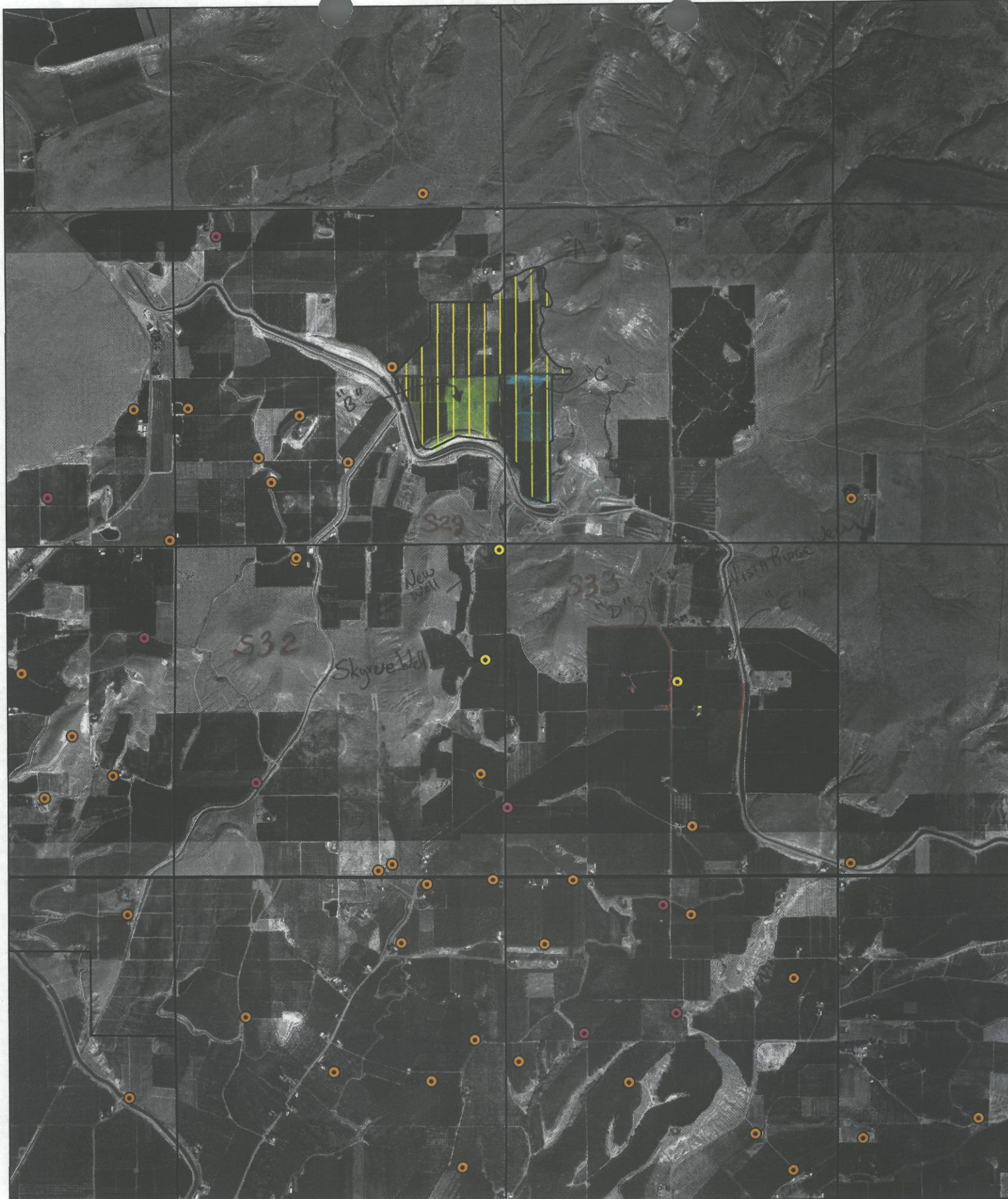
Map printed 12/21/2001



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**G4-32988P Emergency**

1000 0 1000 2000 Feet

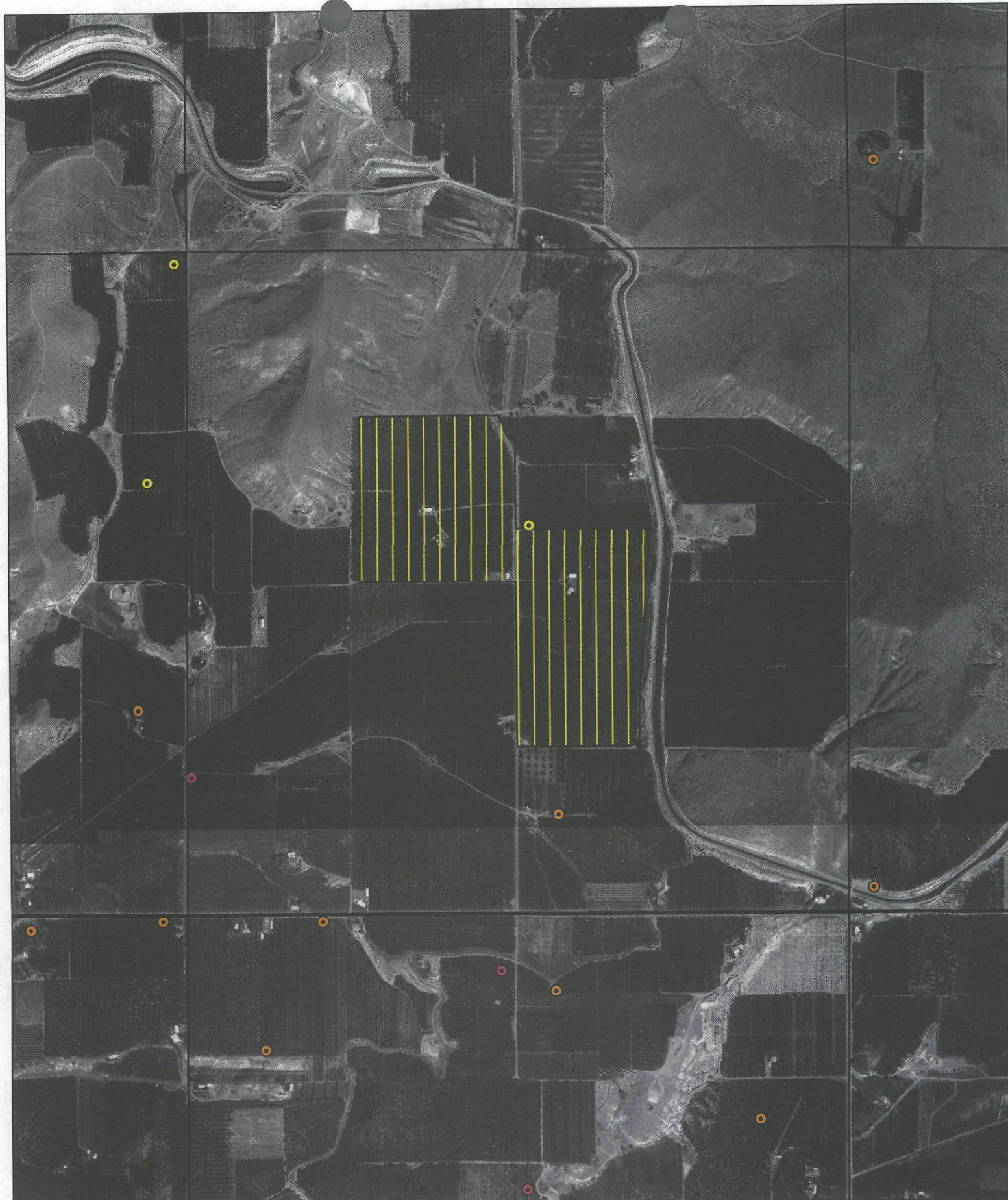


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Map printed 12/20/2001





**G4-32988P Emergency**

Parcel "D" & "E" and Vista Ridge Well

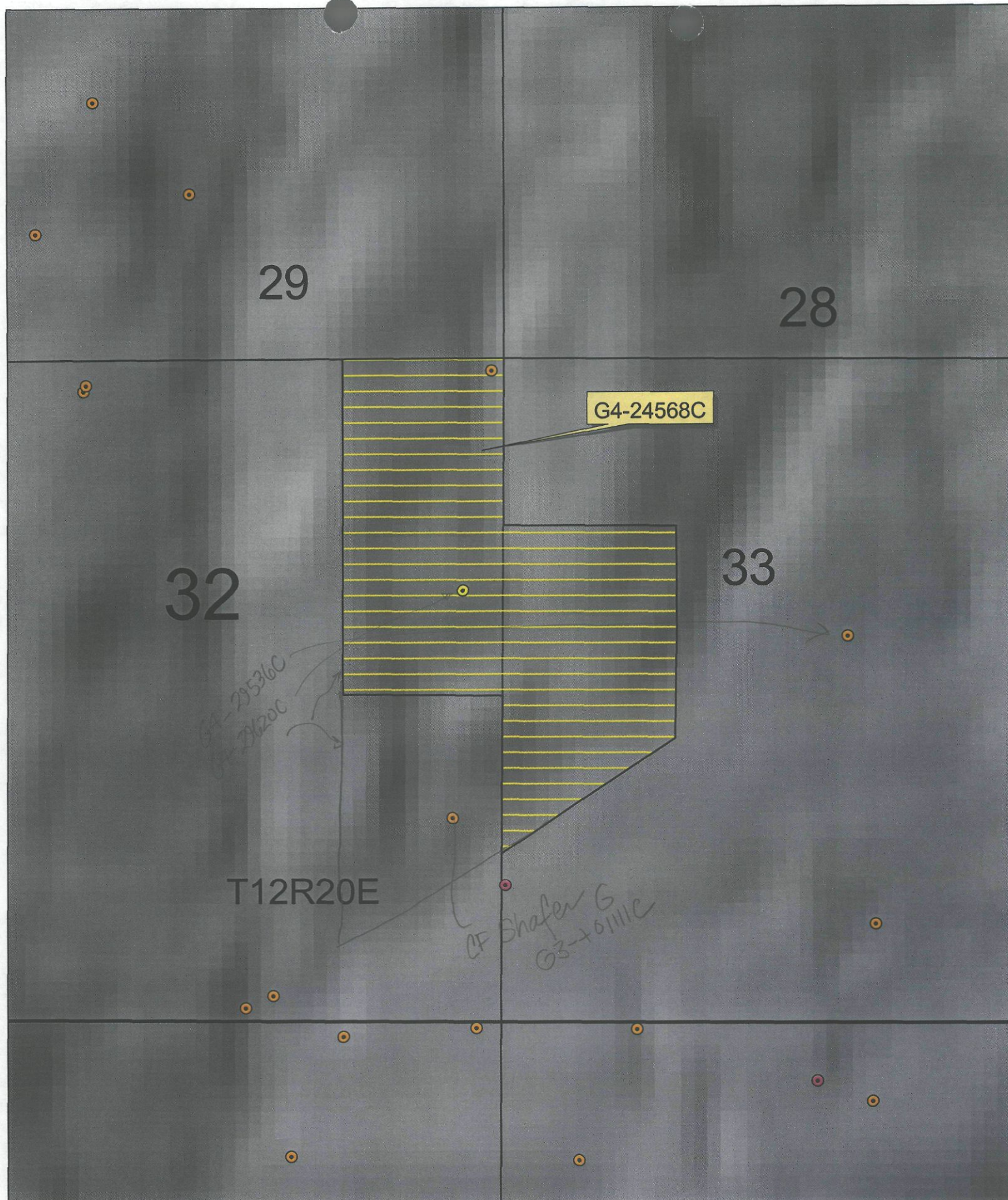
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Map printed 12/20/2001







G4-24568C

500 0 500 1000 Feet

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Map printed 12/20/2001

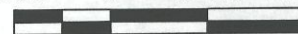






*ArcView Quick Map*

1000 0 1000 2000 Feet



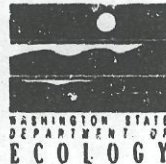
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Map printed 12/20/2001



Vista Ridge Orchards  
490 Vista Ridge Road  
Wapato WA 98951-9676



STATE OF WASHINGTON  
CERTIFICATE OF WATER RIGHT

Document Title: Certificate of Water Right

Agency: Department of Ecology  
Central Regional Office  
15 West Yakima Avenue, Suite 200  
Yakima WA 98902

Applicant: Vista Ridge Orchards  
490 Vista Ridge Road  
Wapato WA 98951-9676

Reference Number:

PRIORITY DATE	APPLICATION NUMBER	PERMIT NUMBER	CERTIFICATE NUMBER
February 23, 1988	G4-29620	G4-29620P	G4-29620C

This is to certify that the herein named applicant has made proof to the satisfaction of the Department of Ecology of a right to the use of the public waters of the State of Washington as herein defined, and under and specifically subject to the provisions contained in the Permit issued by the Department of Ecology, and that said right to the use of said waters has been perfected in accordance with the laws of the State of Washington, and is hereby confirmed by the Department of Ecology and entered of record as shown, but is limited to an amount actually beneficially used.

PUBLIC WATERS TO BE APPROPRIATED

SOURCE	TRIBUTARY OF (IF SURFACE WATERS)	
a well		
MAX. CUBIC FEET PER SECOND	MAX. GALLONS PER MINUTE	MAX. ACRE-FEET PER YEAR
	400	7

QUANTITY/TYPE OF USE/PERIOD OF USE

7 acre-feet per year for frost protection from March 1 to June 20.

LEGAL DESCRIPTION OF LOCATION OF DIVERSION/WITHDRAWAL

1/4 1/4	SECTION	TOWNSHIP N.	RANGE (E. OR W.) W.M.	W.R.I.A.	COUNTY
SE 1/4 NE 1/4	32	12	20 E	37	Yakima

PARCEL # N/A

ADDITIONAL LEGAL IS ON PAGE 2

LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

1/4 1/4	SECTION	TOWNSHIP N.	RANGE (E. OR W.) W.M.	W.R.I.A.	COUNTY
		12	20 E	37	Yakima

PARCEL # N/A

ADDITIONAL LEGAL IS ON PAGE 2



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**CONTINUED LEGAL DESCRIPTION FOR LOCATION OF DIVERSION/WITHDRAWAL**

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300 feet west and 1500 feet south from the northeast corner of Section 32

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**CONTINUED LEGAL DESCRIPTION FOR PROPERTY ON WHICH WATER IS TO BE USED**

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Vista Ridge Orchards/"Shafer": E $\frac{1}{4}$ SE $\frac{1}{4}$  of Section 32, T. 12 N., R. 20 E.W.M., lying north of the following described line: Beginning at the northeast corner of the SE $\frac{1}{4}$ SE $\frac{1}{4}$  of Section 32; thence south 52° west 1664 feet to a point on the west edge of the SE $\frac{1}{4}$ SE $\frac{1}{4}$  lying 342 feet north from the south edge of Section 32.

Vista Ridge Orchards: E $\frac{1}{4}$ NE $\frac{1}{4}$  of Section 32, T. 12 N., R. 20 E.W.M.; SW $\frac{1}{4}$ NW $\frac{1}{4}$  of Section 33, T. 12 N., R. 20 E.W.M., and that portion of the NW $\frac{1}{4}$ SW $\frac{1}{4}$  of Section 33, lying north of the following described line: Beginning at a point 413 feet south from the northeast corner of said subdivision; thence south 56°43' west 1587.9 feet to a point lying 1276 feet south from the northeast corner of said subdivision.

Skyvue Orchards: S $\frac{1}{2}$ NE $\frac{1}{4}$  of Section 33, T. 12 N., R. 20 E.W.M. lying west of the Roza Canal EXCEPT the south 417.5 feet thereof.

Skyvue Orchards: S $\frac{1}{2}$ NE $\frac{1}{4}$  and N $\frac{1}{2}$ SE $\frac{1}{4}$  of Section 33, all lying east of the Roza Canal.

All in Yakima County, Washington.

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**PROVISIONS (see page 3)**

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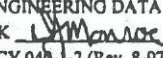
*The right to use of the water aforesaid hereby confirmed is restricted to the lands or place of use herein described, except as provided in RCW 90.03.380, 90.03.390, and 90.44.100.*

**This certificate of water right is specifically subject to relinquishment for non-use of water as provided in RCW 90.14.**

Given under my hand and the seal of this office at Yakima, Washington,  
this 27th day of August, 1999.

Tom Fitzsimmons  
Department of Ecology

By   
Robert F. Barwin, Section Manager

ENGINEERING DATA  
OK   
ECY 046-J-2 (Rev. 8-97)  
7x109 TK:ska  
Ground Water Certificate No. G4-29620C



Ground Water Certificate No. G4-29620  
Vista Ridge Orchards  
Page 3: Provisions

All conditions and requirements contained in reports of examination or permits previously issued apply to this certificate unless specifically noted below.

**WELL CONSTRUCTION AND SYSTEM EQUIPMENT**

Unperforated well casing shall extend, at a minimum, to a 200 feet depth.

The borehole shall **NOT** extend below the top of the Pomona Member (basalt layer) of the Saddle Mountains Basalt Formation, estimated to be at a 650 feet depth.

All water wells constructed within the state shall meet the minimum standards for construction and maintenance as provided under RCW 18.104 (Washington Water Well Construction Act of 1971) and Chapter 173-160 WAC (Minimum Standards for Construction and Maintenance of Water Wells).

For the purpose of making water level measurements, installation and maintenance of an access port as described in Ground Water Bulletin No. 1 is required. An air line and gage are also required. The air line shall be equipped with a standard tire valve. Distance from land surface to the bottom end of the air line shall be clearly posted at the well site, accurate to 0.5 feet or less. The air line, access port, and all well equipment shall be installed and maintained to provide access for measurement of water levels.

A suitable measuring device approved by the Department of Ecology shall be installed and maintained in accordance with WAC 508-64-020 through WAC 508-64-040.

Monthly meter readings must be recorded for those months during which water is used. Also, monthly meter readings shall be provided to the department upon request.

At such time as the department determines that additional meters are needed in the delivery system to verify actual use quantities, they shall be installed within a reasonable time after notification by the department.



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

CERTIFICATE OF WATER RIGHT

- ☐ Surface Water (Issued in accordance with the provisions of Chapter 117, Laws of Washington for 1917, and amendments thereto, and the rules and regulations of the Department of Ecology.)
- ☒ Ground Water (Issued in accordance with the provisions of Chapter 263, Laws of Washington for 1945, and amendments thereto, and the rules and regulations of the Department of Ecology.)

PRIORITY DATE	APPLICATION NUMBER	PERMIT NUMBER	CERTIFICATE NUMBER
February 9, 1977	G4-24568	G4-24568P	G4-24568C

NAME

VISTA RIDGE ORCHARDS

ADDRESS (STREET)

Rt. 2, Box 2112

(CITY)

Wapato,

(STATE)

Washington

(ZIP CODE)

98951

This is to certify that the herein named applicant has made proof to the satisfaction of the Department of Ecology of a right to the use of the public waters of the State of Washington as herein defined, and under and specifically subject to the provisions contained in the Permit issued by the Department of Ecology, and that said right to the use of said waters has been perfected in accordance with the laws of the State of Washington, and is hereby confirmed by the Department of Ecology and entered of record as shown.

PUBLIC WATER TO BE APPROPRIATED

SOURCE

A well

TRIBUTARY OF (IF SURFACE WATERS)

MAXIMUM CUBIC FEET PER SECOND

MAXIMUM GALLONS PER MINUTE

1000

MAXIMUM ACRE-FEET PER YEAR

774

QUANTITY, TYPE OF USE, PERIOD OF USE

741 acre-feet per year, to be used from April 1 to October 31, for the irrigation of

195 acres; 8 acre-feet per year, to be used continuously for a group domestic supply;

25 acre-feet per year, to be used for frost control as required.

LOCATION OF DIVERSION/WITHDRAWAL

APPROXIMATE LOCATION OF DIVERSION-WITHDRAWAL

300 feet west and 1500 feet south of the northeast quarter of Section 32.

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION)

SE $\frac{1}{4}$  NE $\frac{1}{4}$

SECTION

32

TOWNSHIP N.

12

RANGE, (E. OR W.) W.M.

20 E.

W.R.I.A.

37

COUNTY

Yakima

RECORDED PLATTED PROPERTY

LOT

BLOCK

OF (GIVE NAME OF PLAT OR ADDITION)

LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

Parcel A: The SW $\frac{1}{4}$  of the NW $\frac{1}{4}$  AND that part of the NW $\frac{1}{4}$  of the SW $\frac{1}{4}$  of Section 33, T. 12 N., R. 20 E.W.M., described as follows: Beginning at the NE corner of said quarter; thence S 0°05' E 413 feet; thence S 56°43' W 1587.9 feet; thence N 1276 feet; thence N 89°46' E 1325.1 feet, to the point of beginning.

AND,

E $\frac{1}{2}$  NE $\frac{1}{4}$  of Section 32, T. 12 N., R. 20 E.W.M., that portion east of the Rosa Canal located as follows: SE $\frac{1}{4}$  NE $\frac{1}{4}$  and NE $\frac{1}{4}$  SE $\frac{1}{4}$  of Section 33.



PROVISIONS

"The irrigation water herein authorized to be withdrawn is a supplemental supply, with the primary source being water made available by the Roza Irrigation District, hence, the only water herein permitted for withdrawal is that required to compensate for any deficit in this supply. This amount shall not exceed 741 acre-feet per year less any water applied to these lands under existing rights."

Certificate holder shall maintain an access port as described in Ground Water Bulletin No. 1.

The right to the use of the water aforesaid hereby confirmed is restricted to the lands or place of use herein described, except as provided in RCW 90.03.380, 90.03.390, and 90.44.020.

This certificate of water right is specifically subject to relinquishment for nonuse of water as provided in RCW 90.14.180.

Given under my hand and the seal of this office at **Yakima,** Washington, this 14th day of August, 19 78

Department of Ecology

ENGINEERING DATA

OK JP

1a

by

Russell K. Taylor

Russell K. Taylor, Regional Manager

FOR COUNTY USE ONLY



file

STATE OF WASHINGTON  
Department of Ecology  
Yakima, Washington

NOTICE OF APPLICATION FOR CHANGE TO ADD A POINT OF WITHDRAWAL AS AUTHORIZED  
UNDER GROUND WATER CERTIFICATE NO. G4-24568C.

TAKE NOTICE:

That Skyvue Orchards and Vista Ridge Orchards of Wapato, Washington have filed an application for change to add a point of withdrawal as authorized under Ground Water Certificate No. G4-24568C.

That said certificate authorizes the use of 1,000 gallons per minute, 774 acre feet per year for the irrigation of 195 acres, group domestic supply and frost control.

That the authorized place of use is:

Parcel A: the SW $\frac{1}{4}$ NW $\frac{1}{4}$  and that part of the NW $\frac{1}{4}$ SW $\frac{1}{4}$  of Section 33, T. 12 N., R. 20 E.W.M. described as follows: Beginning at the northeast corner of said quarter, thence south 0°05' east 413 feet; thence south 56° 43' west 1587.9 feet, thence north 1,276 feet; thence north 89°45' east 1,325.1 feet to the point of beginning.

AND E $\frac{1}{2}$ NE $\frac{1}{4}$  of Section 32, and that portion of the S $\frac{1}{2}$ NE $\frac{1}{4}$  and the N $\frac{1}{2}$ SE $\frac{1}{4}$  lying east of the Roza Canal right-of-way, Section 33, all within T. 12 N., R. 20 N., E.W.M.

That the authorized point of withdrawal is located approximately 300 feet west and 1,500 feet south of the northeast corner of Sec. 32 being within the SE $\frac{1}{4}$ NE $\frac{1}{4}$  Sect. 32, T. 12 N., R. 20 E.W.M. That the application proposes to add a point of withdrawal located within the SW $\frac{1}{4}$ NE $\frac{1}{4}$  Sec. 33, T. 12 N., R. 20 E.W.M. Protests or objections to approval of this application must include a detailed statement of the basis for objections and must be accompanied by a two dollar (\$2.00) recording fee. All protests must be filed with the Department of Ecology, Central Regional Office, 3601 W. Washington, Yakima, Washington 98903, within thirty (30) days from:

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(Last date of publication to be entered above by the publisher)



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

PROOF OF APPROPRIATION OF WATER

APPLICATION NUMBER <b>G4 24568</b>		PERMIT NUMBER <b>94-24568P</b>	
NAME OF PERMITTEE <b>Vista Ridge Orchards - MEL Gimmaka &amp; Joseph Copeland</b>			
POST OFFICE ADDRESS <b>Rt 2 Box 2112</b>		(CITY) <b>Wapato</b>	(STATE) <b>WA.</b>
ACTUAL SOURCE OF APPROPRIATION <b>WELL</b>		(ZIP CODE) <b>98551</b>	
PURPOSE OR PURPOSES WATER IS USED FOR <b>Irrigation &amp; Frost Control</b>			
DATE WATER WAS COMPLETELY APPLIED TO PERMITTED USE <b>4-1-78</b>		IF USED FOR IRRIGATION: NUMBER OF ACRES ACTUALLY IRRIGATED <b>195</b>	
IF SOURCE IS A WELL, IS AN ACCESS PORT NOW INSTALLED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		MONTHS DURING WHICH WATER IS USED <b>6-7 months April - <del>March</del> Oct</b>	
PUMP SIZE <b>75 hp</b>			
ACTUAL AMOUNT WITHDRAWN OR DIVERTED FROM PERMANENT SYSTEM <b>1000 +</b>			
HAVE ALL PROVISIONS AS REQUIRED BY PERMIT BEEN ACCOMPLISHED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		IF NO, EXPLAIN	
<b>25hp Booster pump at the well site</b>			

LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS USED (USE ADDITIONAL SHEET IF NECESSARY)

Parcel A: The SW 1/4 of the NW 1/4 and that part of the NW 1/4 of the SW 1/4 of Section 33 T. 12 N R 20 EWM described as follows Beginning at the NE corner of said quarter; Thence S 0° 05' E 413 feet Thence S 56° 43' W 1587.9 feet; Thence N 1276 feet; Thence N 89° 46' E 1325.1 feet To the Point of Beginning

AND E 1/2 NE 1/4 of Section 32 T. 12 N R 20 EWM That Portion East of The Roza Canal Located as follows: SE 1/4 NE 1/4 AND NE 1/4 SE 1/4 of Section 33

AND SE 1/4 of the NE 1/4 of Sec. 32 T 12 N Range 20 EWM

AND NE 1/4 of the NE 1/4 of Sec 32 T 12 N Range 20 EWM

STATE OF WASHINGTON,

County of Yakima

RECEIVED

JUL 18 1978

I, MEL Gimmaka, being first duly sworn, depose and say that I have read the above and foregoing proof of appropriation; that I know the contents thereof; and that the facts therein stated are true.

IN WITNESS WHEREOF, I have hereunto set my hand this 14 day of July, 19 78.

Subscribed and sworn to before me this 17 day of July, 19 78.

Notary Public





STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

15 West Yakima Avenue, Suite 200 • Yakima, Washington 98902-3452 • (509) 575-2490

November 16, 2001

WACO Orchards LLC  
490 Vista Ridge Rd  
Wapato WA 98951

**RE: Application No(s). G4-32988**

Earlier this year, the Department of Ecology issued an Emergency Drought Authorization under the above-referenced application number for the use of emergency wells in the Yakima River basins to supplement reduced deliveries during this irrigation season. In some cases new wells were approved for this purpose.

One of the provisions of the authorizations was that a flow meter must be installed, water use monitored, and the water use records submitted to the department at the end of the irrigation season. At this time, I am writing to request the metering reports on these wells. If you did not drill a well that was authorized, or did not use water that was authorized, please let us know.

My staff will be conducting end of irrigation season field visits in the near future. Your meter records and information on the completion of new wells is greatly appreciated.

If you have questions, please call Suzanne Blakeney at (509) 454-7294.

Sincerely,

Phil Crane, Unit Supervisor  
Water Resources Program

SB:PC:gg  
011110a





# Drought Field Checklist

N 46° 29' 10.9"  
W 120° 20' 05.7"

6 JULY

Date of Field Visit

64-32988

Certificate / Permit Number

509-877-4773

Phone Number

GPS Reading

WACO ORCHARDS LLC

Certificate / Permit Name

GARY WALTER

Contact Name

## METER (WATER and/or ELECTRICAL) INFORMATION:

YES Type: Reading:  
Type: Reading:  
Type: Reading:

NO Describe alternative measuring technique:

WELL #1 8" PIPE RUNNING - NO FLOW METER WELL CLOSEST TO HOUSE  
POWER 16 06885 MxKW 25 HP TURBINE  
32338 KWH AIR LINE FILTER PROGRAM MMS PLUMB  
04160 MxKVAR

WELL #2 METER 1100 GPM 10" MAINLINE 250 HP TURBINE  
64 PSI AIR 614012 ACFT X.001 MCCROMETER  
How many users are on the electrical meter:

## PUMP INFORMATION: (Should be a tag on the pump)

Type: HP: Head Discharge:

Other pump information:

General Notes:

Contacts' Questions:

PK  
Inspector Name

Inspector Name





STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

15 West Yakima Avenue, Suite 200 • Yakima, Washington 98902-3452 • (509) 575-2490

May 29, 2001

To: Carroll Palmer, Yakama Nation

RE: Emergency Drought Permit re: G4-32988

Enclosed is a copy of the Department of Ecology's Emergency Drought Change Authorization(s), which constitutes our determination and order regarding the above-referenced application(s). If you have any questions or concerns about any of this information, please call Carol Mortensen of the Department of Ecology at (509) 575-2597.

This Order may be appealed pursuant to RCW Chapter 43.21B. The person to whom this Order is issued must file an appeal with the Pollution Control Hearings Board within thirty (30) days of receipt of this Order. Send the appeal to: Pollution Control Hearings Board, P.O. Box 40903, Olympia, Washington 98504-0903. At the same time, a copy of the appeal must be sent to: Department of Ecology, Fiscal Office, P.O. Box 47615, Olympia, Washington 98504-7615. All others receiving notice of this Order must file an appeal with the Pollution Control Hearings Board within thirty (30) days of the date the Order was mailed in the same manner described above.

Sincerely,

Robert F. Barwin, Section Manager  
Water Resources Program

RFB:gg  
010578a

Enclosures: Emergency Drought Change Authorization(s)

f-10th.doc

